

Title (en)
REGENERATION ROTARY KILN

Title (de)
REGENERATIVER DREHROHROFEN

Title (fr)
FOUR ROTATIF DE RÉGÉNÉRATION

Publication
EP 3026341 A1 20160601 (EN)

Application
EP 14895490 A 20141002

Priority
JP 2014076430 W 20141002

Abstract (en)
Provided is a regeneration rotary kiln capable of reducing the proportion of combustible gas in waste gas and capable of reducing cost for generating superheated steam. A regeneration rotary kiln (1) is characterized by including: a superheated steam generation unit (2) that generates superheated steam; a tube (3) capable of rotating about its axis and having a heating section (A) where, while the superheated steam is being supplied thereto, carbon fiber reinforced plastic (10) containing a matrix resin and carbon fibers is heated to generate combustible gas (10G) from the matrix resin to extract the carbon fibers (10S) from the carbon fiber reinforced plastic (10); a first combustion chamber (43a) that is placed outside the tube (3) and that burns the gas (10G) introduced from the heating section (A) to heat the heating section (A); and a second combustion chamber (43b) that burns the gas (10G) introduced from the first combustion chamber (43a) to supply heat for generating the superheated steam.

IPC 8 full level
F23G 5/20 (2006.01); **C08J 11/14** (2006.01); **F23G 5/033** (2006.01); **F23G 5/16** (2006.01); **F23G 7/00** (2006.01); **F27B 7/20** (2006.01); **F27D 17/00** (2006.01)

CPC (source: EP US)
C08J 11/14 (2013.01 - US); **F23G 5/0273** (2013.01 - US); **F23G 5/033** (2013.01 - EP US); **F23G 5/16** (2013.01 - EP US); **F23G 5/20** (2013.01 - EP US); **F23G 5/46** (2013.01 - US); **F23G 7/00** (2013.01 - EP US); **F23G 7/12** (2013.01 - EP US); **F27B 7/20** (2013.01 - EP US); **F27D 17/00** (2013.01 - US); **F27D 17/004** (2013.01 - EP); **Y02E 20/12** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP US); **Y02P 70/62** (2015.11 - EP US); **Y02W 30/62** (2015.05 - EP US)

Designated contracting state (EPC)
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Designated extension state (EPC)
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